

Title (en)

DEVICE FOR STORING A PRESSURISED GAS, IN PARTICULAR HYDROGEN

Title (de)

VORRICHTUNG FÜR DIE SPEICHERUNG EINES UNTER DRUCK STEHENDEN GASES, INSBESONDERE VON WASSERSTOFF

Title (fr)

DISPOSITIF POUR LE STOCKAGE D'UN GAZ SOUS PRESSION, NOTAMMENT DE L'HYDROGÈNE

Publication

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Application

EP 22160946 A 20220309

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Abstract (en)

[origin: WO2022189469A1] The invention relates to a tank that has a generally prismatic shape, is capable of containing a pressurised gas and comprises a composite shell, which has fibrous reinforcements and a matrix extending continuously over the six faces of the prism and delimits a sealed internal cavity comprising a plurality of open cells, which tank comprises continuous fibrous reinforcements extending into and bonded to the composite shell and further extending through the internal cavity between two opposite faces of the tank. Said tank is advantageously integrated into the floor (701, 702) of a vehicle, in particular into the structure of an aircraft.

Abstract (fr)

L'invention concerne un réservoir de forme générale prismatique, apte à contenir un gaz sous pression, et comprenant une enveloppe composite à renforts fibreux et matrice continue s'étendant sur les 6 faces du prisme et délimitant une cavité interne étanche comprenant une pluralité d'alvéoles ouvertes, lequel réservoir comprend des renforts fibreux continus s'étendant dans l'enveloppe composite et liés à celle-ci et qui, de plus, s'étendent à travers la cavité interne entre deux faces opposées du réservoir. Ledit réservoir est avantageusement intégré au plancher (701, 702) d'un véhicule, notamment à la structure d'un aéronef.

IPC 8 full level

F17C 1/00 (2006.01)

CPC (source: EP KR US)

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Citation (applicant)

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